

- 1 -

piece 1, NC\_000913, alpA\_yfjI+, config: linear, direction: +, begin: 2756849, end: 2757026

\*2756850 \* \*2756860 \* \*2756870 \* \*2756880 \* \*2756890 \* \*2756900 \* \*2756910 \* \*2756920 \*  
5' t g g t t a t c a c a a c g c t g t a a c t t a t t g a g g g t g t t a c a t g a a t t c a t a c t c a a t t g c t g t c a t c a t g g a g t g t a a a c a t c c 3'  
- trp - leu - ser - gln - arg - cys - lys - leu - ile - fMet - asn - ser - tyr - ser - ile - ala - val - ile - gly - val -  
- gly - tyr - his - asn - ala - val - asn - leu - phe - glu - gly - val - thr - fMet - leu - ser - ser - glu - cys - lys - his - pro -  
- val - ile - thr - thr - leu - fMet - arg - val - leu - his - glu - phe - ile - leu - asn - cys - his - arg - ser - val - asn - ile - leu -

ir alpA\_yfjI+ orf 12 codons

sd

{-----} sd-(7)-ir 2756888 Gap 3.7 bits  
{-----} sd-ir 2756888 alpA\_yfjI+ total 8.0 bits

\*2756930 \* \*2756940 \* \*2756950 \* \*2756960 \* \*2756970 \* \*2756980 \* \*2756990 \* \*2757000 \* \*2757010 \*  
5' t g c t a t t t c c g c a t t a a t a g c g g a a t a g c c a t a t t t g c t a a a c a a t t t c t t a a t a a a g a g g c a t t g c a t g t 3'  
- ala - ile - ser - ala - ile - asn - ser - gly - ile - ala - ile - phe - ala - lys - gln - phe - leu - asn - leu - ile - lys - fMet - his - val -  
- leu - phe - pro - pro - leu - ile - ala - glu - fMet - leu - asn - asn - phe - leu - ile - ile - lys - fMet - phe

p35 5.2 bits

sd [----- ... NC\_000913.yfjI

... ir

p10 3.7 bits

{-----} sd-(7)-ir 2757007 Gap 3.7 bits

|-----| sd-ir 2757007 alpA\_yfjI+ total 6.0 b  
{-----} p35-(24)-p10 2756990 Gap 2.4 bits

... p10

|-----| p35-p10 2756990 total 6.5 bits

{-----} p35-(22)-p10 2757007 Gap 2.3 bits  
{-----} p35-p10 2757007 total 5.0 bits

{-----} ... p35-(26)-p10 2757011 Gap

{-----} ... p35-p10 2757011 total 5.0

\*2757020 \*  
5' t c a a t g g t c g t c c t t t 3'  
- fMet - val - val - leu -  
- gln - trp - ser - ser - phe -  
- asn - gly - arg - pro -  
... ir alpA\_yfjI+

p10 3.0 bits

... p10 1.7 bits

... } p35-(26)-p10 2757011 Gap 3.7 bits

... | p35-p10 2757011 total 5.0 bits